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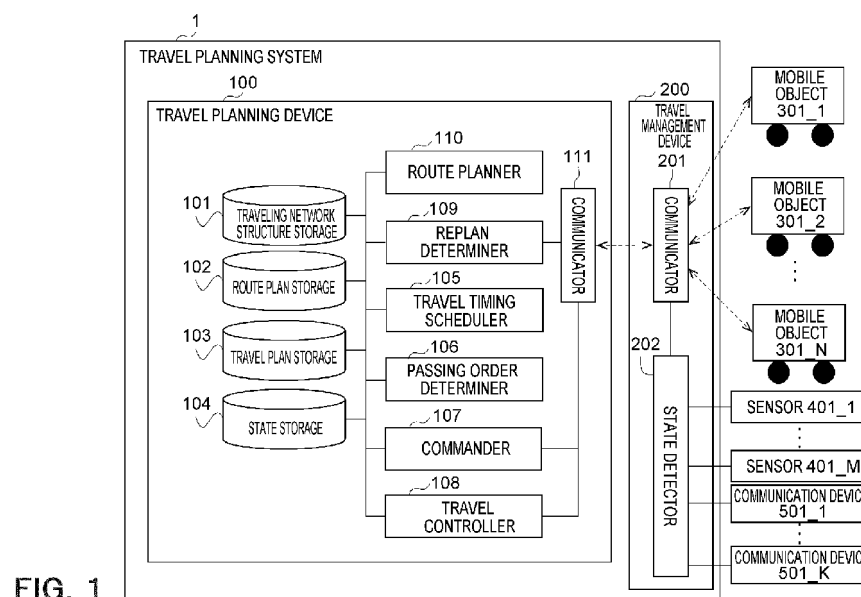
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(54) **TRAVEL CONTROL DEVICE, TRAVEL CONTROL METHOD, TRAVEL CONTROL SYSTEM AND COMPUTER PROGRAM**

(57) According to one embodiment, a travel control device includes a passing order determiner configured to determine passing order of a plurality of mobile objects in a first area through which the plurality of mobile objects

pass on a basis of a conflict condition at which conflict among the mobile objects occurs; and a controller configured to control traveling of the plurality of mobile objects on a basis of the passing order.





EUROPEAN SEARCH REPORT

Application Number

EP 22 19 9120

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DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	SEN A ED - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS: "THE SUPERVISORY SYSTEM OF THE IMPERIAL COLLEGE FREE RANGING AUTOMATED GUIDED VEHICLE PROJECT", DECISION AIDING FOR COMPLEX SYSTEMS. CHARLOTTESVILLE, VA., OCT. 13 - 16, 1991; [PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON SYSTEMS, MAN AND CYBERNETICS], NEW YORK, IEEE, US, vol. 2, 13 October 1991 (1991-10-13), pages 1017-1022, XP000238065, DOI: 10.1109/ICSMC.1991.169821 ISBN: 978-0-7803-0233-4	1-5, 11-14	INV. G06Q10/04
Y	* page 1017 - page 1021; figures 2-4 *	6	
Y	WO 2007/149711 A2 (KIVA SYS INC [US]; D ANDREA RAFFAELLO [US] ET AL.) 27 December 2007 (2007-12-27)	6	
A	* page 1, first paragraph, page 10, second paragraph, page 32, second paragraph, page 25, first and second paragraphs, figure 2 *	1-5, 11-14	
			TECHNICAL FIELDS SEARCHED (IPC)
			G05D G05G G06Q
The present search report has been drawn up for all claims			

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Place of search	Date of completion of the search	Examiner
The Hague	13 December 2022	Nicolaucig, Aldo
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document		



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-6, 11-14

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-6, 11-14

this group relates to a travel control device as defined in claim 4, further defined by the special technical feature of claim 6 (passing notification, select among vehicles not having passed), and corresponding method, computer program and system, for solving the problem of efficient control of a plurality of mobile objects, see page 1, lines 10-14.

2. claims: 7-10

this group relates to a travel control device as defined in claim 4, further defined by the special technical features of claim 7 (instructing passing check request, inquiring to pass), for solving the problem of efficient control of a plurality of mobile objects, see page 1, lines 10-14.

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 22 19 9120

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

13-12-2022

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